

**WHAT IS CLAIMED IS:**

1        1. A system for providing digital entertainment data, the system comprising:  
2            a data switch, the data switch having a plurality of switch ports;  
3            a mass storage device, the mass storage device coupled to a switch port of the  
4 plurality of switch ports of the data switch;  
5            a tuner, the tuner to select an information channel of a plurality of information  
6 channels;  
7            a demodulator, the demodulator coupled to both a switch port of the plurality of  
8 switch ports of the data switch, the tuner.

1        2. The system of claim 1, further comprising a Web-server, the Web-server coupled to  
2 the data switch.

1        3. The system of claim 1, wherein the demodulator is to receive a transmission signal  
2 and output an information signal, the transmission signal including a carrier signal and the  
3 information signal.

1        4. The system of claim 1, the system further comprising decryption logic coupled to  
2 the demodulator, the decryption logic to receive an encrypted information signal and  
3 output a decrypted information signal.

1        5. The system of claim 1, the system further comprising encryption logic coupled to  
2 the data switch, the encryption logic to receive an unencrypted information signal and  
3 output an encrypted information signal.

1        6. The system of claim 1, further comprising a broadband data port, the broadband  
2 data port coupled to a switch port of the plurality of switch ports of the data switch.

1        7. The system of claim 6, wherein the broadband data port is to receive data from a  
2 broadband data service provider.

1        8. The system of claim 1, further comprising a first multimedia input, the first  
2 multimedia input coupled to the tuner.

1        9. The system of claim 8, wherein the first multimedia input is to receive a plurality of  
2 transmission signals.

1        10. The system of claim 9, wherein the plurality of transmission signals include a  
2 plurality of television program signals.

1        11. The system of claim 9, wherein the plurality of transmission signals include an  
2 audio signal.

1        12. The system of claim 9, wherein the plurality of transmission signals include a data  
2 signal.

1        13. The system of claim 9, wherein the plurality of transmissions signals are received  
2 from a transmission facility selected from the group consisting of a direct broadcast  
3 satellite, a cable headend, and a terrestrial transmitter.

1        14. The system of claim 9, wherein the plurality of transmission signals are  
2 multiplexed transmission signals selected from the group of frequency divided multiplexed  
3 transmission signals, time divided multiplexed transmission signals, code divided  
4 multiplexed transmission signals, wavelength divided multiplexed transmission signals,  
5 and dense wavelength divided multiplexed transmission signals.

1        15. The system of claim 1, wherein the tuner selects an information channel of a  
2 plurality of information channels at least in part by  
3 receiving a plurality of transmission signals, and  
4 outputting a transmission signal of the plurality of transmission signals.

1        16. The system of claim 1, wherein the mass storage device receives and stores the  
2 information signal.

1        17. The system of claim 1, wherein  
2 the data switch receives the information signal,  
3 the data switch sends the information signal to the mass storage device, and  
4 the mass storage device stores the information signal.

1        18. The system of claim 1, wherein  
2 an analog-to-digital converter receives the information signal,  
3 the analog-to-digital converter outputs a digital information signal, the digital  
4 information signal based at least in part on the information signal, and  
5 the mass storage device stores the digital information signal.

1        19. The system of claim 18, wherein the digital information signal is an Motion  
2        Pictures Expert Group 2 (MPEG-2) encoded digital information signal.

1        20. The system of claim 1, wherein  
2        an analog-to-digital converter receives the information signal,  
3        the analog-to-digital converter outputs a digital information signal, the digital  
4        information signal based at least in part on the information signal,  
5        encryption logic receives the digital information signal,  
6        the encryption logic outputs an encrypted digital information signal, and  
7        the mass storage device stores the encrypted digital information signal.

1        21. The system of claim 8, further comprising  
2        a second multimedia input, the second multimedia input coupled to a switch port of  
3        the data switch, the second multimedia input to receive a multimedia signal,  
4        wherein the data switch is to receive the multimedia signal.

1        22. The system of claim 1, further comprising  
2        a plurality of broadband data communication links, each broadband data  
3        communication link of the plurality of broadband data communication links coupled to a  
4        respective switch port of the plurality of switch ports of the data switch, and  
5        a plurality of digital set top boxes, each digital set top box of the plurality of digital  
6        set top boxes coupled to a respective broadband data communication link.

1        23. The system of claim 22, wherein the plurality of broadband data communication  
2        links are selected from the group consisting of category 5 cables, category 5e cables,  
3        category 6 cables, category 7 cables, and OC-3 cables.

1        24. The system of claim 22, wherein at least one digital set top box of the plurality of  
2        digital set top boxes includes a digital data interface, the digital data interface to  
3        communicate with the data switch.

1        25. The system of claim 22, further comprising a lower bandwidth communication  
2        interface, the lower bandwidth communication interface coupled to a switch port of the  
3        plurality of switch ports of the data switch.

1        26. The system of claim 25, wherein the lower bandwidth communication interface is  
2        selected from the group consisting of a Home Phoneline Networking Alliance 2.0  
3        (HomePNA 2.0) interface, a HomeRF Shared Wireless Access Protocol (HomeRF SWAP)  
4        interface, an IEEE 802.11 interface, and a Bluetooth interface.

1        27. The system of claim 1, wherein the data switch is an Ethernet switch.

1        28. The system of claim 24, wherein the digital data interface is an Ethernet interface.

1        29. The system of claim 1, wherein the data switch is a router.

1        30. A system for providing digital entertainment data, the system comprising:  
2            a first tuner, the first tuner adapted to receive a plurality of transmission signals and  
3        to selectively output a first transmission signal of the plurality of transmission signals;  
4            a first demodulator, the first demodulator coupled to the first tuner, the first  
5        demodulator adapted to receive the transmission signal, the transmission signal including  
6        an information signal, the first demodulator to output the information signal;  
7            a data switch, the data switch coupled to the first demodulator, the data switch  
8        adapted to receive the information signal; and  
9            a mass storage device, the mass storage device coupled to the data switch, the mass  
10       storage device adapted to store the information signal.

1        31. The system of claim 30, further comprising:  
2            decryption logic coupled to the first demodulator  
3            encryption logic coupled to the decryption logic,  
4            wherein the information signal is a first encrypted information signal, the  
5        decryption logic decrypting the first encrypted information signal, the encryption logic  
6        encrypting the decrypted first encrypted information signal to generate a second encrypted  
7        information signal, the second encrypted information signal being sent to the data switch,  
8        the mass storage device storing the second encrypted information signal..

1        32. The system of claim 30, wherein the data switch has a plurality of high bandwidth  
2        switch ports.

1        33. The system of claim 32, wherein the plurality of high bandwidth switch ports  
2 include a plurality of 100Base-T Ethernet switch ports.

1        34. The system of claim 32, wherein the data switch has a switch port coupled to a  
2 lower bandwidth communications device.

1        35. The system of claim 34, wherein the lower bandwidth communications device is  
2 selected from the group consisting of a Home Phoneline Networking Alliance (HomePNA)  
3 port, a HomeRF Shared Wireless Access Protocol (SWAP) transceiver, an IEEE 802.11  
4 transceiver, and a Bluetooth transceiver.

1        36. A method of providing digital entertainment data, the method comprising:  
2            receiving a plurality of transmission signals, each transmission signal including an  
3 information signal;  
4            selecting a first transmission signal of the plurality of transmission signals;  
5            demodulating the first transmission signal to isolate a first information signal;  
6            storing the first information signal on a mass storage device;  
7            sending the first information signal to a digital data switch; and  
8            sending the first information signal to a first broadband communications link  
9 coupled to the digital data switch.

1 37. The method of claim 36, wherein:  
2 sending the first information signal to a digital data switch includes  
3 sending the first information signal to an analog-to-digital converter, and  
4 outputting a first digital information signal, the first digital information signal  
5 based at least in part on the first information signal; and  
6 wherein sending the first information signal to a first broadband communications  
7 link coupled to the digital data switch includes sending the first digital information signal  
8 to the first broadband communications link coupled to the digital data switch.

1 38. The method of claim 36, further comprising:  
2 selecting a second transmission signal of the plurality of transmission signals;  
3 demodulating the second transmission signal to isolate a second information signal;  
4 sending the second information signal to the digital data switch; and  
5 sending the second information signal to a second broadband communications link  
6 coupled to the digital data switch.

1 39. The method of claim 38, further comprising storing the second information signal  
2 on the mass storage device.

1 40. The method of claim 36, further comprising receiving from the first broadband  
2 communications link a command to control sending of the first information signal.



1        41. The method of claim 40, wherein the command to control sending of the first  
2        information signal is selected from the group of a command to pause sending of the first  
3        information signal, a command to resend the first information signal, a command to  
4        increase a rate of sending of the first information signal, a command to decrease a rate of  
5        sending the first information signal, a command to stop sending the first information  
6        signal, and a command to resume sending of the first information signal.

1        42. The method of claim 38, further comprising receiving a command from the second  
2        broadband communications link to control sending of the second information signal.

1        43. The method of claim 36, further comprising:  
2        selecting a third transmission signal of the plurality of transmission signals;  
3        demodulating the third transmission signal to isolate a third information signal;  
4        sending the third information signal to the digital data switch; and  
5        sending the third information signal to a first data communications link coupled to  
6        the digital data switch, the first data communications link having a lower bandwidth than  
7        the first broadband communications link.

1        44. The method of claim 36, wherein the digital data switch is an Ethernet switch.

1        45. The method of claim 36, wherein the digital data switch is a router.

1        46. The method of claim 36, wherein the first broadband communication link is  
2        selected from the group consisting of a category 5 cable, a category 5e cable, a category 6  
3        cable, a category 7 cable, and an OC-3 cable.

1 47. The method of claim 44, wherein the first data communications link is selected  
2 from the group consisting of a Home Phoneline Networking Alliance (HomePNA)  
3 communications link, a HomeRF Shared Wireless Access Protocol (SWAP)  
4 communications link, an IEEE 802.11 communications link, and a Bluetooth  
5 communications link.

1 48. A system for providing digital entertainment data, the system comprising:  
2 means for selectively outputting a first transmission signal of a plurality of  
3 transmission signals;  
4 means for demodulating the first transmission signal to generate an information  
5 signal, the means for demodulating coupled to the means for selectively outputting;  
6 means for switching digital data, the means for switching digital data coupled to the  
7 means for demodulating, the means for switching digital data adapted to receive the  
8 information signal; and  
9 means for mass storage, the means for mass storage coupled to the means for  
10 switching digital data, the means for mass storage adapted to store the information signal.

1 49. The system of claim 48, further comprising a plurality of means for broadband  
2 communications coupled to the means for switching digital data.

1 50. The system of claim 49, further comprising a plurality of means for interfacing a  
2 multimedia device, each means for interfacing a multimedia device coupled to a respective  
3 means for broadband communications.

- 1 51. The system of claim 48, further comprising means for lower bandwidth
- 2 communications coupled to the means for switching digital data.